

L1 ANSWER 1 OF 2 CA COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 127:221149 CA
TITLE: High-temperature high-pressure preparation of ethylene/α-olefin copolymers with narrow composition distribution
INVENTOR(S): Arai, Koichi; Toshimitsu, Makoto
PATENT ASSIGNEE(S): Tosoh Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
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PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09216916	A2	19970819	JP 1996-25378	19960213 <-- JP 1996-25378 19960213

PRIORITY APPLN. INFO.:

AB Title copolymers are prep'd. by copolymg. ethylene and C \geq 3 α-olefins in a temp. range from their m.p. to 300° at 300-4000 kg/cm² in the presence of metallocene catalysts in a tubular reactor, wherein ethylene or its mixts. with C \geq 3 α-olefins are further supplied from the side (against the flow direction of monomer mixts. in the reactor) of the reactor. Thus, in a tubular reactor (having 3 reaction compartments, 3 inlets of monomer mixts., and 3 inlets of metallocene catalysts), ethylene/1-hexene (60/40) mixt. was supplied from the 1st inlet at 15.7 ton/h, the 2nd inlet at 3.5 ton/h, and the 3rd inlet 4.5 ton/h, copolymd. in the presence of metallocene catalysts [diphenylmethylene(cyclopentadienyl)(fluorenyl)zirconium dichloride, N,N-dimethylanilinium tetrakis(pentafluorophenyl)borate, and triisobutylaluminum (molar ratio of Zr/B/Al = 1/1.2/250)] at 220° and 900 kg/cm² to give a copolymer with m.p. = 96°, d. = 0.908 g/cm³, melt-flow rate 55.1 g/10-min, catalytic activity 1850 kg-polymer/g-Zr, and narrow compn. distribution.

L1 ANSWER 2 OF 2 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN

Full Text

ACCESSION NUMBER: 1997-466236 [43] WPIX
DOC. NO. CPI: C1997-148286
TITLE: Production of ethylene -alpha-olefin copolymers of narrow composition distribution - by copolymerisation in tube reactor using metallocene catalyst with monomer feed from side of reactor..
DERWENT CLASS: A17 A60 E12
PATENT ASSIGNEE(S): (TOYJ) TOSOH CORP
COUNTRY COUNT: 1
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
JP 09216916	A	19970819 (199743)*		12	<--

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
JP 09216916	A	JP 1996-25378	19960213

PRIORITY APPLN. INFO: JP 1996-25378 19960213

AN 1997-466236 [43] WPIX

AB JP 09216916 A UPAB: 19971030

In production of ethylene/ alpha -olefin copolymers, ethylene and at least 3C alpha -olefin are copolymerised in a tube reactor at from the m.pt. of the copolymer to 300 deg. C, 300-4000 kgf/cm², in the presence of metallocene catalyst, with feed of monomer of ethylene optionally with alpha -olefin from the side part of the reactor.

ADVANTAGE - Ethylene/ alpha -olefin copolymer in narrow composition distribution can be obtained.

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